

Use Attainability Analysis

for

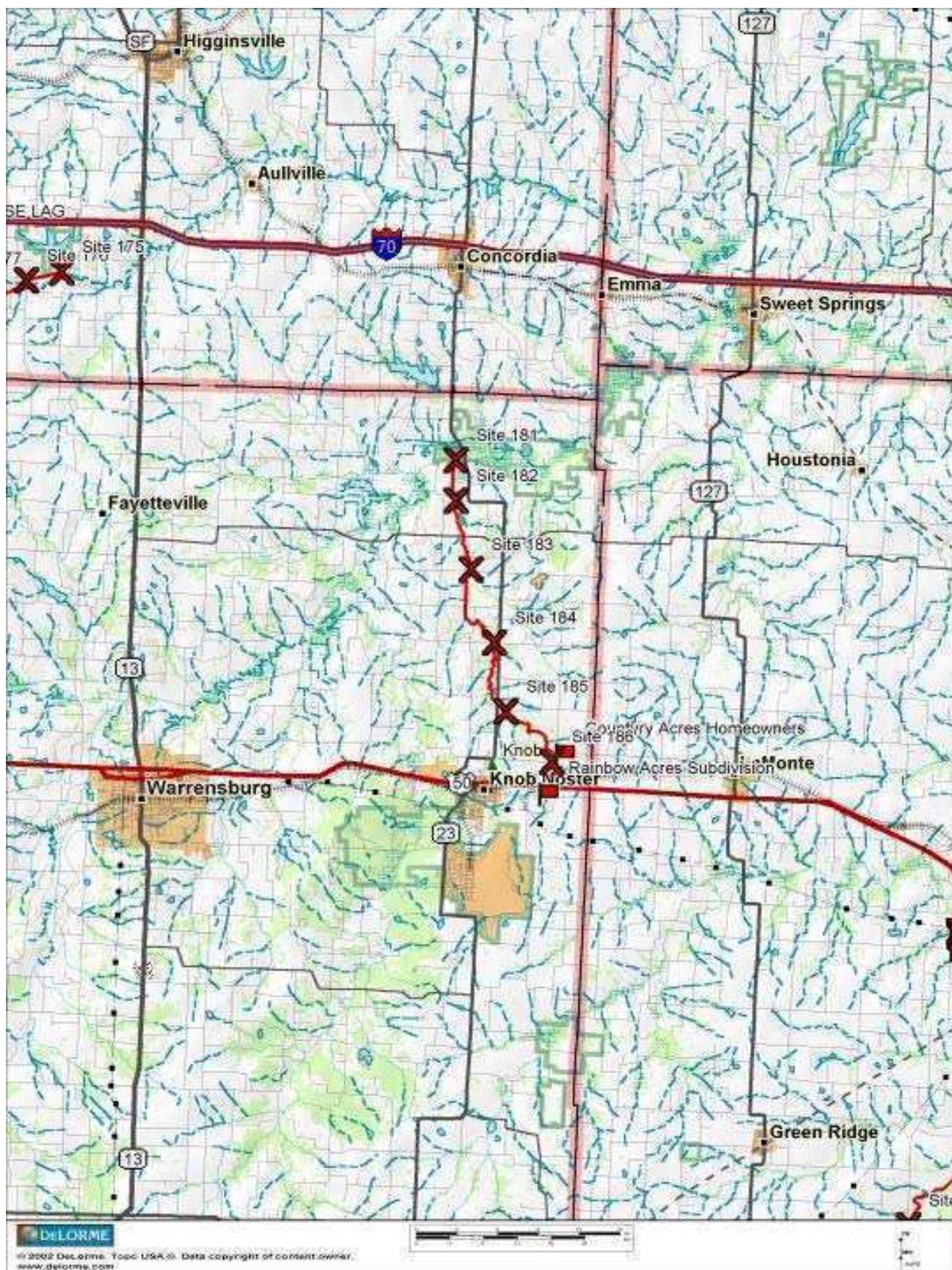
WBID 0937 Walnut Creek

Submitted by
Tetra Tech, Inc.

to

Missouri Department of Natural Resources
Water Protection Program

Date received: May 23, 2005



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

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2005 MAY 23 PM 2:59

WATER PROTECTION PROGRAM

Water Body Name: (from USGS 7.5' quad)	WALNUT CREEK (181-186)		
8-digit HUC:	10300104		
Missouri WBID #:	0937		
County:	JOHNSON COUNTY		
Upstream Legal Description:			
Downstream Legal Description:			
Upstream Coordinates: (UGS 84, ddd.ddddd)	N 38.77821	W 093.52146	headwater
Downstream Coordinates: (UGS 84, ddd.ddddd)	N 39.90335	W 093.56620	near mouth
Discharger Facility Name(s):	COUNTRY ACRES HOMEOWNERS / RAINBOW ACRES SUBDIVISION		
Discharger Permit Number(s):			
Number of Sites Evaluated:	6		
Name of Surveyor and Telephone Number:	CHAD BABBOUR, 410-356-8993		
Organization:	TETRA TECH INC.		
Position:	ASSOCIATE SCIENTIST		

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Chad E. Babour Date: 04/21/05

Field Data Sheets for Recreational Use Stream Surveys

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Data Sheet B - Site Characterization

2005 MAY 23 PM 2:59

(A separate data sheet must be completed for each site)

WATER PROTECTION PROGRAM

Missouri WBID #: 181	Site Location Description:	
Site GPS Coordinates: N 38.90335 W 093.56620	Rt 23 Bridge in Ralph & Martha Perry Memorial Conservation Area	
Date & Time: 4-21-05 12:48 PM	Facility Name: Country Acres Homeowners / Rainbow Acres Subdivision	
Personnel: CB ELY	Permit Number:	
Current Weather Conditions: Cloudy, 73°	Weather Conditions for Past 7 days:	
Photo Ids: Upstream: 1764A 040	Downstream: 1763A 039	Other:

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

250m from the site there is a pull off. Site located within Conservation Area.

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input checked="" type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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The stream was greater than 3m deep we were unable to get an average depth.

Page Two - Data Sheet B for WBID # 181 :

Stream Morphology: Visual Estimation Due to Depth & Turbidity of Water

Upstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): <u>18.5 m</u>	Length (ft): <u>20 m</u>	Avg. Depth (ft): <u>water too turbid to est. depth</u>	Max. Depth (ft): <u>> 3m</u>
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>3 m</u>	Estimated (ft ³ /sec): <u>42s 55s 35s</u>	<u>37.3 s = 0.08 m/s</u>

Downstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>24 m</u>	Length (ft): <u>20 m</u>	Avg. Depth (ft): <u>water too turbid to est. depth</u>	Max. Depth (ft): <u>> 3m</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft ³ /sec):		

Could not determine flow b/c we were unable to get to the center of the stream

Substrate*: (These values should add up to 100%.)

visually # ☐ % Cobble ☐ % Gravel ☐ % Sand 50 % Silt 50 % Mud/Clay ☐ % Bedrock

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

None visible

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

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Signed: [Signature] Date: 04/21/05

Organization: TEMA Tech Inc. Position: ASSOCIATE SCIENTIST

QC EY 4-21-2005



Field Data Sheets for Recreational Use Stream Surveys

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2005 MAY 23 PM 2:59

WATER PROTECTION PROGRAM

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 182	Site Location Description:	
Site GPS Coordinates: N 35.88620 W 093.57142	Unnamed Road off Rt 23 overpass	
Date & Time: 4-21-2005 12:13 PM	Facility Name: Country Acres Homeowners / Rainbow Acres Subdivision	
Personnel: CB ELY	Permit Number:	
Current Weather Conditions: Partly Cloudy 75°	Weather Conditions for Past 7 days:	
Photo Ids: Upstream: 1762A 037	Downstream: 1762A 038	Other:

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Extra Data:

There is a pool on the down stream portion with a max depth of 0.65m
 Steve Long : There is no activity in this stream. *
 205 W Broadway
 Higginsville MO

Surrounding Conditions*:

(Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Stream Morphology:

Upstream View Physical Dimensions: in meters: 0.18, 0.44, 0.61, 0.30, 0.12

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): <u>4.6m</u>	Length (ft): <u>20m</u>	Avg. Depth (ft): <u>0.33m</u>	Max. Depth (ft): <u>0.61m</u>
<input checked="" type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>3m</u>	Estimated (ft ³ /sec): <u>6.6</u>	<u>= 0.08 m/s</u>

Downstream View Physical Dimensions: in meters: 0.20, 0.44, 0.40, 0.38, 0.18

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft): <u>0.40^{BY}</u>
<input type="checkbox"/> Pool	Width (ft): <u>5.4m</u>	Length (ft): <u>20m</u>	Avg. Depth (ft): <u>0.32m</u>	Max. Depth (ft): <u>0.40m</u>
<input checked="" type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>3m</u>	Estimated (ft ³ /sec): <u>3m / 6.33^{COB}</u>	<u>= 0.08 m/s</u>

Substrate*: (These values should add up to 100%.)

<u>0</u> % Cobble	<u>20</u> % Gravel	<u>0</u> % Sand	<u>40</u> % Silt	<u>40</u> % Mud/Clay	<u>0</u> % Bedrock
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Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

<u>Algae</u>

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input checked="" type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: [Signature] Date: 04-21-05Organization: TEINA TECH INC. Position: ANALYST SCIENTIST

E2y 4-21-2005



Stream Morphology:

Upstream View Physical Dimensions: in meters: 0.02, 0.08, 0.16, 0.16, 0.18

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>7.6m</u>	Length (ft): <u>20m</u>	Avg. Depth (ft): <u>0.12m</u>	Max. Depth (ft): <u>0.18</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3m Estimated (ft ³ /sec): <u>15s / 3m = 0.20 m/s</u>	

15s, 14s, 16s

Downstream View Physical Dimensions: in meters: 0.09, 0.14, 0.26, 0.26, 0.08

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>4.4m</u>	Length (ft): <u>20m</u>	Avg. Depth (ft): <u>0.16m</u>	Max. Depth (ft): <u>0.26m</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3m Estimated (ft ³ /sec): <u>27.3s / 3m = 0.11 m/s</u>	

29s, 27s, 26s

Substrate*: (These values should add up to 100%.)

<u>20</u> % Cobble	<u>0</u> % Gravel	<u>60</u> % Sand	<u>10</u> % Silt	<u>10</u> % Mud/Clay	<u>0</u> % Bedrock
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Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

<u>ALGAE THROUGHOUT.</u>

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

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Signed: [Signature] Date: 04/21/05

Organization: TETRA TECH INC. Position: ANALYST & GEOTECH

E2g 4-21-05

Field Data Sheets for Recreational Use Stream Surveys

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Data Sheet B - Site Characterization

2005 MAY 23 PM 2:59

(A separate data sheet must be completed for each site) WATER PROTECTION PROGRAM

Missouri WBID #: 183	Site Location Description: NE 700th Rd Overpass	
Site GPS Coordinates: N 38.85779 W 093.56342		
Date & Time: 4-21-2005 1135 AM	Facility Name: Country Acres Homeowners/Rainbow Acres Subdivision	
Personnel: CB, ELY	Permit Number:	
Current Weather Conditions: Partly cloudy 70°	Weather Conditions for Past 7 days:	
Photo Ids: Upstream: 1759A 035	Downstream: 1760A 036	Other:

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)
Downstream pool w/a max depth of 0.52m. Just downstream of the x site there is a pipeline running under the stream.

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Field Data Sheets for Recreational Use Stream Surveys

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Data Sheet B - Site Characterization

2005 MAY 23 PM 2:59

(A separate data sheet must be completed for each site) WATER PROTECTION PROGRAM

Missouri WBID #: 1784	Site Location Description:	
Site GPS Coordinates: N 38.82747 W 093.55122	NE 500th Rd Overpass	
Date & Time: 4-21-2005 10:50 AM	Facility Name: County Acres Homeowners/Rainbow Acres Subdivision	
Personnel: CB, ELY	Permit Number:	
Current Weather Conditions: Mostly Cloudy 68°	Weather Conditions for Past 7 days:	
Photo Ids: Upstream: 1757A C33	Downstream: 1758A C34	Other:

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)
 Extra measurements:
 On upstream portion there is a pool w/a max depth of 0.90m.
 On downstream portion there is a pool w/a max depth of 0.56m.

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Stream Morphology:

Upstream View Physical Dimensions: in Meters: 0.12, 0.12, 0.10, 0.09, 0.14

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>6.5m</u>	Length (ft): <u>20m</u>	Avg. Depth (ft): <u>0.114m</u>	Max. Depth (ft): <u>0.12m</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3m Estimated (ft ³ /sec): <u>3m/47s = 0.12 m/s</u>	

Downstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): <u>6.5m</u>	Length (ft): <u>20m</u>	Avg. Depth (ft): <u>0.296m</u>	Max. Depth (ft): <u>0.48m</u>
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3m Estimated (ft ³ /sec): <u>3m/47s = 0.06 m/s</u>	

Substrate*: (These values should add up to 100%.)

<u>35</u> % Cobble	<u>5</u> % Gravel	<u>0</u> % Sand	<u>25</u> % Silt	<u>25</u> % Mud/Clay	<u>10</u> % Bedrock
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Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

<u>Algae</u>

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>brown</u>
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

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Organization: TEINA TECH INC. Position: ASSOCIATE SCIENTIST

EJey 4-20-05



Field Data Sheets for Recreational Use Stream Surveys

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2005 MAY 23 PM 2: 59

WATER PROTECTION PROGRAM

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

ACC 10.1A

Missouri WBID #: 185	Site Location Description:	
Site GPS Coordinates: N38.79893 W093.54581	E 1161 overpass	
Date & Time: 4-20-2005 5:52 PM	Facility Name: Country Acres Homeowners/Rainbow Acres Subdivision	
Personnel: CB, ELY	Permit Number:	
Current Weather Conditions: Partly cloudy 75°	Weather Conditions for Past 7 days:	
Photo Ids: Upstream: 1751A 027	Downstream: 1752A 028	Other:

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Interviewed a family who declined to give information. They never observed any recreational uses on this stream.

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Morphology:

Upstream View Physical Dimensions: in m: ^{EY 4-20-05} ~~0.20~~, 0.08, 0.02, 0.12, 0.18, 0.12

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): ^{EY} 4.0m	Length (ft): ^{EY} 20m	Avg. Depth (ft): ^{EY} 0.104m	Max. Depth (ft): ^{EY} 0.18m
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3m Estimated (ft ³ /sec): ^{EY} 3m / 29s =	^{EY} 0.11 m/s

Downstream View Physical Dimensions: in m: ^{EY} 0.01, 0.02, ^{EY} 0.09, 0.05, 0.08

<input checked="" type="checkbox"/> Riffle	Width (ft): ^{EY} 1.8m	Length (ft): ^{EY} 20m	Avg. Depth (ft): ^{EY} 0.038m	Max. Depth (ft): ^{EY} 0.09m
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft): ^{EY} 0.09
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3m Estimated (ft ³ /sec): ^{EY} 3m / 5.66s =	^{EY} 0.54 m/s

Substrate*: (These values should add up to 100%.)

<u>0</u> % Cobble	<u>80</u> % Gravel	<u>15</u> % Sand	<u>0</u> % Silt	<u>5</u> % Mud/Clay	<u>0</u> % Bedrock
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Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

Algae

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Cheryl Date: 04/20/05

Organization: TEMA Tech Inc. Position: ASSISTANT SCIENTIST

Ely 4-20-2005



Field Data Sheets for Recreational Use Stream Surveys

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2005 MAY 23 PM 2: 59

WATER PROTECTION PROGRAM

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 186	Site Location Description:	
Site GPS Coordinates: N 38.77821 W 093.52146	NE 175th Overpass	
Date & Time: 4-20-2005 5:18 PM	Facility Name: Country Acres Homeowners/Rainbow Acres Subdivision	
Personnel: C.B. ELY	Permit Number:	
Current Weather Conditions: overcast	Weather Conditions for Past 7 days:	
Photo Ids: Upstream: 179A 025	Downstream: 179A 026	Other:

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Morphology:

Upstream View Physical Dimensions: m: 0.10, 0.15, 0.16, 0.16, 0.10

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): <u>3.9m</u>	Length (ft): <u>20m</u>	Avg. Depth (ft): <u>0.134m</u>	Max. Depth (ft): <u>0.16m</u>
<input checked="" type="checkbox"/> Flow	Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Estimated (ft ³ /sec):	

Downstream View Physical Dimensions: m: 0.20, 0.10, 0.10, 0.08, 0.06

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>2.2m</u>	Length (ft): <u>20m</u>	Avg. Depth (ft): <u>0.108m</u>	Max. Depth (ft): <u>0.20m</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>3m</u>	Estimated (ft ³ /sec): <u>27.665 / 3m = 0.11 m/s</u>

Substrate*: (These values should add up to 100%.)

<u>5</u> % Cobble	<u>5</u> % Gravel	<u>0</u> % Sand	<u>0</u> % Silt	<u>0</u> % Mud/Clay	<u>90</u> % Bedrock
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Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

<u>Algae</u>

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input checked="" type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Chue M Date: 04-20-05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

EJY 4-20-2005



Aug 23, 2005

Dear Madam/Sirs

I have been following the discussions on the Stream Exemptions in Johnson Co. Mo. So far I am not sure I understand all the ~~pluses~~ (+'s) for such a move but I do see many minuses (-'s).

I am an amateur archaeologist (over 50 years) and enjoy walking the streams of Johnson Co. I enjoy the fish, minnows, crayfish, turtles, mussels, insects, frogs, snakes and all the other inhabitants of our clean streams. As a student of Dr. Oscar Hawksley (emiratus professor at Central Mo. U.) I was taught about the issues of protecting and appreciating the balance of nature. I feel that exempting streams from protection against sewage is a bad idea. Several streams are already unable to have anything live. (One is the small stream next to the Knob Noster sewage lagoon which runs into Clear Fork Creek)

I frequently walk both Post Oak and Walnut Creek often wading in above my waist and both of these flow into Blackwater which I also wade. There are at least twenty (20) others like me that also enjoy these streams and a ^{semi} clean environment.

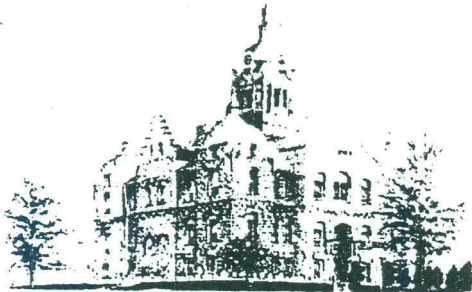
WBID
137

(2)

East Bear creek is now getting a lot of contamination from its close proximity to the Johnson Co. dump site. The ground water that is seeping into it from the small ditch on the north side of the dump is very polluted with debris and contamination. I know it is hard to monitor the many streams of Johnson or any other county in Mo. but between concerned citizens, conservation agents, good political representatives and diligent observation pollution could be reduced. Not eliminated but maybe held in check!

I hope that you will reconsider this current proposal and study the long term effects. I would be glad to accompany anyone wishing to check on these concerns on our environment. Please don't write me off as just another nut. Nature is a big part of our needs and should be a priority for everyone. Our streams and their cleanliness is very, very important. Let's hope we react wisely.

Respectfully yours,
Warren T. Christopher
210 Grover St.
Warrensburg, Mo.
(Johnson Co.)
Phone - 660-429-1143



Johnson County Commission

William Brenner
Presiding Commissioner

Scott Sader
Commissioner, Eastern District

Destry Hough
Commissioner, Western District

Gilbert Powers
County Clerk

Johnson County Courthouse, 300 N Holden, Warrensburg, MO 64093

(660) 747-6161 Fax 747-9332 countyclerk@jococourthouse.com

www.jococourthouse.com

August 15, 2005

Marlene Kirchner
Clean Water Commission
P.O. Box 176
Jefferson City, MO 65102

RECEIVED
2005 AUG 13 11:51
WATER PROTECTION PROGRAM

Ms. Kirchner,

The Johnson County Commission is hereby opposed to the dumping of raw sewage in Pin Oak Creek, West Fork of Post Oak Creek and Walnut Creek all in Johnson County. All of the above mentioned streams are used for recreational purposes such as boating, wading, swimming and fishing and also flow into major water sources for the county.

Without protection from the pollution of raw sewage for all of our waterways we are putting our residents at risk for a host of viruses and parasites that can cause very serious illnesses. At this time we are requesting full water-quality protection be put in place for these streams. It is of vital importance that we protect our natural resources and strengthen rather than weaken the amount of protection for our environment.

We would like to thank you and the commission for your time and consideration in this matter.

Sincerely,

William Brenner

William Brenner, Presiding Commissioner

Scott Sader

Scott Sader, Eastern Commissioner

Destry Hough
(Hough)

Destry Hough, Western Commissioner